

90 DEC 31 AM 11:29

December 18, 1990

Mr. Tom Ramsey
Fuel Oil Polishing Company
19336 Solano Court
Sonoma, CA 95476


RE: PACE Project No. 401205.601
Dept. of Agriculture

Dear Mr. Ramsey:

Enclosed is the report of laboratory analyses for samples received December 05, 1990.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,


Lisa J. Petersen
Project Manager

Enclosures

~~Handwritten scribble~~ Copy
Lisa Petersen



REPORT OF LABORATORY ANALYSIS

Fuel Oil Polishing Company
 19336 Solano Court
 Sonoma, CA 95476

December 18, 1990
 PACE Project
 Number: 401205601

Attn: Mr. Tom Ramsey

Dept. of Agriculture

PACE Sample Number:	70 0847761	70 0847796
Date Collected:	12/05/90	12/05/90
Date Received:	12/05/90	12/05/90
Parameter	<u>Units</u>	<u>MDL</u>
	1205-3	1205-3
	<i>Water</i>	<i>Water</i>

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS
 VOLATILE HALOCARBONS BY EPA 8010

Dichlorodifluoromethane	ug/L	10	ND	-
Dichlorodifluoromethane	ug/L	2.0	-	ND
Chloromethane	ug/L	10	ND	-
Chloromethane	ug/L	2.0	-	ND
Vinyl Chloride	ug/L	10	ND	-
Vinyl Chloride	ug/L	2.0	-	ND
Bromomethane	ug/L	10	ND	-
Bromomethane	ug/L	2.0	-	ND
Chloroethane	ug/L	10	ND	-
Chloroethane	ug/L	2.0	-	ND
Trichlorofluoromethane (Freon 11)	ug/L	10	ND	-
Trichlorofluoromethane (Freon 11)	ug/L	2.0	-	ND
1,1-Dichloroethene	ug/L	0.5	-	ND
1,1-Dichloroethene	ug/L	10	ND	-
Methylene Chloride	ug/L	0.5	-	11
Methylene Chloride	ug/L	10	480	-
trans-1,2-Dichloroethene	ug/L	0.5	-	ND
trans-1,2-Dichloroethene	ug/L	10	ND	-
1,1-Dichloroethane	ug/L	0.5	-	ND
1,1-Dichloroethane	ug/L	10	ND	-
Chloroform	ug/L	0.5	-	12
Chloroform	ug/L	10	360	-
1,1,1-Trichloroethane (TCA)	ug/L	0.5	-	ND
1,1,1-Trichloroethane (TCA)	ug/L	10	ND	-
Carbon Tetrachloride	ug/L	0.5	-	ND

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. Tom Ramsey
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December 18, 1990
 PACE Project
 Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847761	70 0847796	
Date Collected:		12/05/90	12/05/90	
Date Received:		12/05/90	12/05/90	
Parameter	Units	MDL	1205-3	1205-6

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS

Carbon Tetrachloride	ug/L	2.5	ND	-
1,2-Dichloroethane (EDC)	ug/L	0.5	-	ND
1,2-Dichloroethane (EDC)	ug/L	2.5	ND	-
Trichloroethene (TCE)	ug/L	0.5	-	ND
Trichloroethene (TCE)	ug/L	2.5	ND	-
1,2-Dichloropropane	ug/L	0.5	-	ND
1,2-Dichloropropane	ug/L	2.5	ND	-
Bromodichloromethane	ug/L	0.5	-	ND
Bromodichloromethane	ug/L	2.5	ND	-
2-Chloroethylvinyl ether	ug/L	0.5	-	ND
2-Chloroethylvinyl ether	ug/L	2.5	ND	-
cis-1,3-Dichloropropene	ug/L	0.5	-	ND
cis-1,3-Dichloropropene	ug/L	2.5	ND	-
trans-1,3-Dichloropropene	ug/L	0.5	-	ND
trans-1,3-Dichloropropene	ug/L	2.5	ND	-
1,1,2-Trichloroethane	ug/L	0.5	-	ND
1,1,2-Trichloroethane	ug/L	2.5	ND	-
Tetrachloroethene	ug/L	0.5	-	ND
Tetrachloroethene	ug/L	2.5	ND	-
Dibromochloromethane	ug/L	0.5	-	ND
Dibromochloromethane	ug/L	2.5	ND	-
Chlorobenzene	ug/L	0.5	-	ND
Chlorobenzene	ug/L	2.5	ND	-
Bromoform	ug/L	0.5	-	ND
Bromoform	ug/L	2.5	ND	-
1,1,2,2-Tetrachloroethane	ug/L	0.5	-	ND
1,1,2,2-Tetrachloroethane	ug/L	2.5	ND	-
1,3-Dichlorobenzene	ug/L	0.5	-	ND
1,3-Dichlorobenzene	ug/L	2.5	ND	-

MDL Method Detection Limit
 ND Not detected at or above the MDL.

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December 18, 1990
 PACE Project
 Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847761	70 0847796
Date Collected:		12/05/90	12/05/90
Date Received:		12/05/90	12/05/90
Parameter	<u>Units</u>	<u>MDL</u>	<u>1205-3</u> <u>1205-6</u>

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS

1,4-Dichlorobenzene	ug/L	0.5	-	ND
1,4-Dichlorobenzene	ug/L	2.5	ND	-
1,2-Dichlorobenzene	ug/L	0.5	-	ND
1,2-Dichlorobenzene	ug/L	2.5	ND	-
Bromochloromethane (Surrogate Recovery)			99%	95%
1,4-Dichlorobutane (Surrogate Recovery)			108%	102%

VOLATILE AROMATICS BY EPA 8020

Benzene	ug/L	0.2	-	ND
Benzene	ug/L	1.0	ND	-
Toluene	ug/L	0.2	-	1.2
Toluene	ug/L	1.0	ND	-
Chlorobenzene	ug/L	0.2	-	ND
Chlorobenzene	ug/L	1.0	ND	-
Ethylbenzene	ug/L	0.2	-	ND
Ethylbenzene	ug/L	1.0	ND	-
Xylenes, Total	ug/L	0.2	-	0.5
Xylenes, Total	ug/L	1.0	ND	-
1,3-Dichlorobenzene	ug/L	0.2	-	ND
1,3-Dichlorobenzene	ug/L	1.0	ND	-
1,4-Dichlorobenzene	ug/L	0.2	-	ND
1,4-Dichlorobenzene	ug/L	1.0	ND	-
1,2-Dichlorobenzene	ug/L	0.2	-	ND
1,2-Dichlorobenzene	ug/L	1.0	ND	-
Fluorobenzene (Surrogate Recovery)			97%	104%

MDL Method Detection Limit
 ND Not detected at or above the MDL.

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PACE Project
Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847745	70 0847753	70 0847770
Date Collected:		12/05/90	12/05/90	12/05/90
Date Received:		12/05/90	12/05/90	12/05/90
Parameter	Units	MDL	1205-1	1205-2
			<i>Soil</i>	<i>Soil</i>

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS

VOLATILE HALOCARBONS BY EPA 8010

Dichlorodifluoromethane	ug/kg	1000	ND	ND	-
Dichlorodifluoromethane	ug/kg	20	-	-	ND
Chloromethane	ug/kg	1000	ND	ND	-
Chloromethane	ug/kg	20	-	-	ND
Vinyl Chloride	ug/kg	1000	ND	ND	-
Vinyl Chloride	ug/kg	20	-	-	ND
Bromomethane	ug/kg	1000	ND	ND	-
Bromomethane	ug/kg	20	-	-	ND
Chloroethane	ug/kg	1000	ND	ND	-
Chloroethane	ug/kg	20	-	-	ND
Trichlorofluoromethane	ug/kg	1000	ND	ND	-
Trichlorofluoromethane	ug/kg	20	-	-	ND
1,1-Dichloroethene	ug/kg	250	ND	ND	-
1,1-Dichloroethene	ug/kg	5.0	-	-	ND
Methylene Chloride	ug/kg	250	ND	ND	-
Methylene Chloride	ug/kg	5.0	-	-	12
trans-1,2-Dichloroethene	ug/kg	250	ND	ND	-
trans-1,2-Dichloroethene	ug/kg	5.0	-	-	ND
1,1-Dichloroethane	ug/kg	250	ND	ND	-
1,1-Dichloroethane	ug/kg	5.0	-	-	ND
Chloroform	ug/kg	250	1200	1400	-
Chloroform	ug/kg	5.0	-	-	6.6
1,1,1-Trichloroethane (TCA)	ug/kg	250	ND	ND	-
1,1,1-Trichloroethane (TCA)	ug/kg	5.0	-	-	ND
Carbon Tetrachloride	ug/kg	250	ND	ND	-
Carbon Tetrachloride	ug/kg	5.0	-	-	ND
1,2-Dichloroethane (EDC)	ug/kg	250	ND	ND	-
1,2-Dichloroethane (EDC)	ug/kg	5.0	-	-	ND

MDL Method Detection Limit
ND Not detected at or above the MDL.

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December 18, 1990
 PACE Project
 Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847745	70 0847753	70 0847770
Date Collected:		12/05/90	12/05/90	12/05/90
Date Received:		12/05/90	12/05/90	12/05/90
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>1205-1</u>	<u>1205-2</u>
			<u>1205-4</u>	

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS

Trichloroethene (TCE)	ug/kg	250	ND	ND	-
Trichloroethene (TCE)	ug/kg	5.0	-	-	ND
1,2-Dichloropropane	ug/kg	250	ND	ND	-
1,2-Dichloropropane	ug/kg	5.0	-	-	ND
Bromodichloromethane	ug/kg	250	ND	ND	-
Bromodichloromethane	ug/kg	5.0	-	-	ND
2-Chloroethylvinyl ether	ug/kg	250	ND	ND	-
2-Chloroethylvinyl ether	ug/kg	5.0	-	-	ND
cis-1,3-Dichloropropene	ug/kg	250	ND	ND	-
cis-1,3-Dichloropropene	ug/kg	5.0	-	-	ND
trans-1,3-Dichloropropene	ug/kg	250	ND	ND	-
trans-1,3-Dichloropropene	ug/kg	5.0	-	-	ND
1,1,2-Trichloroethane	ug/kg	250	ND	ND	-
1,1,2-Trichloroethane	ug/kg	5.0	-	-	ND
Tetrachloroethene	ug/kg	250	ND	ND	-
Tetrachloroethene	ug/kg	5.0	-	-	ND
Dibromochloromethane	ug/kg	250	ND	ND	-
Dibromochloromethane	ug/kg	5.0	-	-	ND
Chlorobenzene	ug/kg	250	ND	ND	-
Chlorobenzene	ug/kg	5.0	-	-	ND
Bromoform	ug/kg	250	ND	ND	-
Bromoform	ug/kg	5.0	-	-	ND
1,1,2,2-Tetrachloroethane	ug/kg	250	ND	ND	-
1,1,2,2-Tetrachloroethane	ug/kg	5.0	-	-	ND
1,3-Dichlorobenzene	ug/kg	250	ND	ND	-
1,3-Dichlorobenzene	ug/kg	5.0	-	-	ND
1,4-Dichlorobenzene	ug/kg	250	ND	ND	-
1,4-Dichlorobenzene	ug/kg	5.0	-	-	ND
1,2-Dichlorobenzene	ug/kg	250	ND	ND	-

MDL Method Detection Limit
 ND Not detected at or above the MDL.

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 Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847745	70 0847753	70 0847770
Date Collected:		12/05/90	12/05/90	12/05/90
Date Received:		12/05/90	12/05/90	12/05/90
Parameter	Units	MDL	1205-1	1205-2
			1205-4	

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS

1,2-Dichlorobenzene	ug/kg	5.0	-	-	ND
Bromochloromethane (Surrogate Recovery)			90%	91%	99%
1,4-Dichlorobutane (Surrogate Recovery)			99%	98%	103%
VOLATILE AROMATICS BY EPA 8020					
Benzene	ug/kg	1.0	-	-	ND
Benzene	ug/kg	50	ND	ND	-
Toluene	ug/kg	1.0	-	-	ND
Toluene	ug/kg	50	ND	ND	-
Chlorobenzene	ug/kg	1.0	-	-	ND
Chlorobenzene	ug/kg	50	ND	ND	-
Ethylbenzene	ug/kg	1.0	-	-	ND
Ethylbenzene	ug/kg	50	ND	ND	-
Xylenes, total	ug/kg	1.0	-	-	ND
Xylenes, total	ug/kg	50	ND	ND	-
1,3-Dichlorobenzene	ug/kg	1.0	-	-	ND
1,3-Dichlorobenzene	ug/kg	50	ND	ND	-
1,4-Dichlorobenzene	ug/kg	1.0	-	-	ND
1,4-Dichlorobenzene	ug/kg	50	ND	ND	-
1,2-Dichlorobenzene	ug/kg	1.0	-	-	ND
1,2-Dichlorobenzene	ug/kg	50	ND	ND	-
Fluorobenzene (Surrogate Recovery)			98%	96%	104%

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. Tom Ramsey
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December 18, 1990
 PACE Project
 Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847788	70 0847800
Date Collected:		12/05/90	12/05/90
Date Received:		12/05/90	12/05/90
Parameter	Units	MDL	1205-5 1205-7

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS
 VOLATILE HALOCARBONS BY EPA 8010

Dichlorodifluoromethane	ug/kg	20	ND	-
Chloromethane	ug/kg	20	ND	-
Vinyl Chloride	ug/kg	20	ND	-
Bromomethane	ug/kg	20	ND	-
Chloroethane	ug/kg	20	ND	-
Trichlorofluoromethane	ug/kg	20	ND	-
1,1-Dichloroethene	ug/kg	5.0	ND	-
Methylene Chloride	ug/kg	5.0	ND	-
trans-1,2-Dichloroethene	ug/kg	5.0	ND	-
1,1-Dichloroethane	ug/kg	5.0	ND	-
Chloroform	ug/kg	5.0	ND	-
1,1,1-Trichloroethane (TCA)	ug/kg	5.0	ND	-
Carbon Tetrachloride	ug/kg	5.0	ND	-
1,2-Dichloroethane (EDC)	ug/kg	5.0	ND	-
Trichloroethene (TCE)	ug/kg	5.0	ND	-
1,2-Dichloropropane	ug/kg	5.0	ND	-
Bromodichloromethane	ug/kg	5.0	ND	-
2-Chloroethylvinyl ether	ug/kg	5.0	ND	-
cis-1,3-Dichloropropene	ug/kg	5.0	ND	-
trans-1,3-Dichloropropene	ug/kg	5.0	ND	-
1,1,2-Trichloroethane	ug/kg	5.0	ND	-
Tetrachloroethene	ug/kg	5.0	ND	-
Dibromochloromethane	ug/kg	5.0	ND	-
Chlorobenzene	ug/kg	5.0	ND	-
Bromoform	ug/kg	5.0	ND	-
1,1,2,2-Tetrachloroethane	ug/kg	5.0	ND	-
1,3-Dichlorobenzene	ug/kg	5.0	ND	-
1,4-Dichlorobenzene	ug/kg	5.0	ND	-

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. Tom Ramsey
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December 18, 1990
 PACE Project
 Number: 401205601

Dept. of Agriculture

PACE Sample Number:		70 0847788	70 0847800
Date Collected:		12/05/90	12/05/90
Date Received:		12/05/90	12/05/90
Parameter	<u>Units</u>	<u>MDL</u>	<u>1205-5</u> <u>1205-7</u>

ORGANIC ANALYSIS

VOLATILE HALOCARBONS AND AROMATICS

1,2-Dichlorobenzene	ug/kg	5.0	ND	-
Bromochloromethane (Surrogate Recovery)			107%	-
1,4-Dichlorobutane (Surrogate Recovery)			103%	-
VOLATILE AROMATICS BY EPA 8020			-	-

Benzene	ug/kg	1.0	ND	-
Toluene	ug/kg	1.0	ND	-

Chlorobenzene	ug/kg	1.0	ND	-
Ethylbenzene	ug/kg	1.0	ND	-
Xylenes, total	ug/kg	1.0	ND	-
1,3-Dichlorobenzene	ug/kg	1.0	ND	-
1,4-Dichlorobenzene	ug/kg	1.0	ND	-
1,2-Dichlorobenzene	ug/kg	1.0	ND	-

Fluorobenzene (Surrogate Recovery)			92%	-
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PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	-
Purgeable Fuels, as Gasoline (EPA 8015)	mg/kg wet	1.0	-	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020):			-	-
Benzene	mg/kg wet	0.005	-	ND
Ethylbenzene	mg/kg wet	0.005	-	ND
Toluene	mg/kg wet	0.005	-	ND
Xylenes, Total	mg/kg wet	0.005	-	ND

MDL Method Detection Limit
 ND Not detected at or above the MDL.

Mr. Tom Ramsey
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December 18, 1990
PACE Project
Number: 401205601

Dept. of Agriculture

The data contained in this report were obtained using EPA or other approved methodologies. All analyses were performed by me or under my supervision.



Ruth J. Siegmund
Organic Chemistry Manager

**CHAIN-OF-CUSTODY RECORD
Analytical Request**

Client FOPCO
Address 19336 Solano Ct
Sonoma Ca. 95477
Phone (707) 935-1700

Report To: Tom Ramsey
Bill To: Same
P.O. # / Billing Reference verbal
Project Name / No. Dept. of Agriculture

Pace Client No. _____
Pace Project Manager LJP
Pace Project No. 4001205.600
Requested Due Date: Std

Sampled By (PRINT): DONALD TOKARSKI
Sampler Signature Donald Tokarski Date Sampled 12/5/90

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST	REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA'S	1 Ltr.		
1	1205-1		Soil	84745	1						XX	depth 5'feet
2	1205-2		Soil	75.3	1						XX	depth 5'feet
3	1205-3		WATER	76.1	3	X					XX	
4	1205-4		Soil	77.0	1						XX	depth 4'feet
5	1205-5		Soil	78.8	1						XX	depth 4'feet
6	1205-6		water	79.6	3	X					XX	
7	1205-7		Soil	80.0	1						XX	depth 5'feet
8												

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
OUT / DATE	RETURNED / DATE							
<u>A/1, K13, SIDOR</u>				<u>1-7</u>	<u>Donald Tokarski (Pace)</u>	<u>Steph...</u>	<u>12/5/90</u>	<u>1430</u>

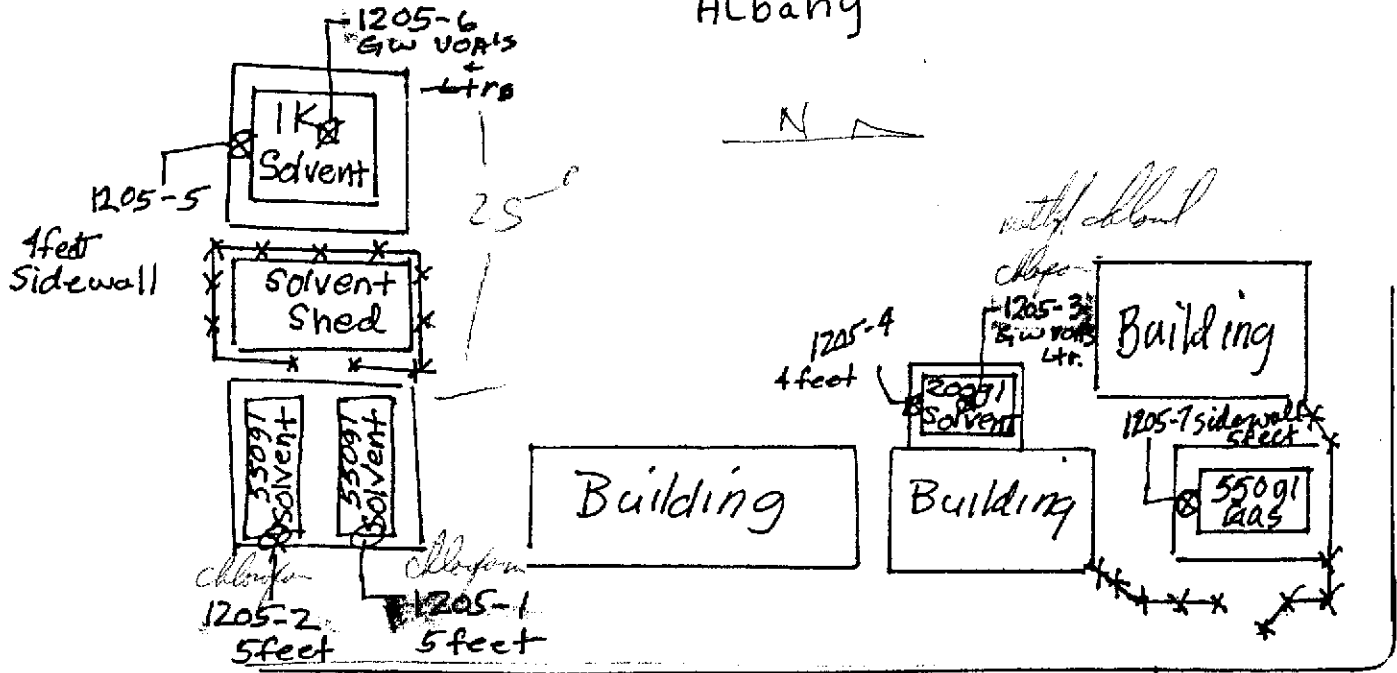
Additional Comments
at site
11 to 1330 2.5 hrs
mileage
99-160 61 miles
Travel time 1.5
ORIGINAL 1 hr total

Results Requested
by: Lawrence Seto
Alameda County
HAZ Mat

12-5-90

Dept. of Agriculture
800 Buchanan St
Albany

Tom Ramsey



Parking LOT

Dept of Agriculture
 800 Buchanan
 Albany

Buchanan St

at site

1100 to 1330 hrs 2.5

Mileage
99-160 (61)

Travel time $\frac{1.5 \text{ hrs}}{7.0 \text{ hrs}}$

at scene

Lt. Dennis River
Albany Fire Dept

Lawrence Seto
Alameda County
HAZ Mat

analyses
Requested
8010 + 8020
1205-1 Soil 5'
1205-2 soil 5'
1205-3 water GW
1205-4 Soil 4'
1205-5 soil 4'
1205-6 water GW
1205-7 Soil 5'

TPHG
BTKFE